

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.  
25491-2403DSERIAL NO.  
Not yet assignedLIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENTAPPLICANT  
CANTOR *et al.*FILING DATE  
September 14, 1999GROUP  
Not yet assigned

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
ACSH	AA	3	8	0	7	2	3	5	04/30/74	Lefkovitz <i>et al.</i>	73	863.32	10/06/72
	AB	3	9	9	7	2	9	8	12/14/76	McLafferty <i>et al.</i>	23	253	02/27/75
	AC	4	1	3	9	3	4	6	02/13/79	Rabbani	422	56	11/28/77
	AD	4	2	1	4	1	5	9	01/22/80	Hillenkamp <i>et al.</i>	250	288	08/31/78
	AE	4	4	4	2	3	5	4	04/10/84	Hurst <i>et al.</i>	250	281	01/22/82
	AF	4	4	6	1	3	2	8	07/24/84	Kenney	422	100	06/04/82
	AG	4	4	7	3	4	5	2	09/25/84	Cantor <i>et al.</i>	204	458	11/18/82
	AH	4	6	8	3	1	9	4	07/28/87	Saiki <i>et al.</i>	435	6	03/28/85
	AI	4	6	8	3	1	9	5	07/28/87	Mullis <i>et al.</i>	435	6	02/07/86
	AJ	4	7	2	5	6	7	7	02/16/88	Köster <i>et al.</i>	536	27	08/10/84
	AK	4	7	2	9	9	4	7	03/08/88	Middendorf <i>et al.</i>	435	6	03/29/84
	AL	4	7	7	8	9	9	3	10/18/88	Wagh	250	287	08/28/87
	AM	4	7	7	9	4	6	7	10/25/88	Rainin <i>et al.</i>	73	863.32	01/28/87
	AN	4	7	9	7	3	5	5	01/10/89	Stabinsky	435	6	06/13/85
	AO	4	8	0	6	5	4	6	02/21/89	Carrico <i>et al.</i>	536	27	09/30/85
	AP	4	8	0	8	5	2	0	02/28/89	Dattagupta <i>et al.</i>	435	6	03/15/85
	AQ	4	8	8	2	1	2	7	11/21/89	Rosenthal <i>et al.</i>	422	50	11/12/87
	AR	4	9	2	0	2	6	4	04/24/90	Becker	250	282	01/17/89
	AS	4	9	3	1	6	3	9	06/05/90	McLafferty	250	282	09/08/88
	AT	4	9	4	8	8	8	2	08/14/90	Ruth	536	27	05/04/87
	AU	4	9	5	2	5	1	8	08/28/90	Johnson <i>et al.</i>	436	518	12/28/87
	AV	4	9	9	4	3	7	3	02/19/91	Stavrianopoulos <i>et al.</i>	435	6	07/20/89
	AW	4	9	9	7	9	2	8	03/05/91	Hobbs, Jr.	536	27	09/15/88
AC	AX	5	0	0	0	9	2	1	03/19/91	Hanaway <i>et al.</i>	422	100	02/08/90

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FORM PTO-1449 (Modified)  LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 25491-2403D	SERIAL NO. Not yet assigned
	APPLICANT CANTOR <i>et al.</i>	
	FILING DATE September 14, 1999	GROUP Not yet assigned

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
ACSH	AY	5	0	0	2	8	6	7	03/26/91	Macevicz	435	6	10/24/88
	AZ	5	0	0	2	8	6	8	03/26/91	Jacobson <i>et al.</i>	435	6	07/20/88
	BA	5	0	0	3	0	5	9	03/26/91	Brennan	536	27	06/20/88
	BB	5	0	4	5	6	9	4	09/03/91	Beavis <i>et al.</i>	250	287	09/27/89
	BC	5	0	6	2	9	3	5	11/05/91	Schlag <i>et al.</i>	204	157.41	03/21/89
	BD	5	0	6	4	7	5	4	11/12/91	Mills	435	6	11/13/87
	BE	5	0	6	8	1	7	6	11/26/91	Vijg <i>et al.</i>	435	6	05/01/89
	BF	5	0	7	3	4	8	3	12/17/91	Lebacqz	435	6	03/24/89
	BG	5	0	7	7	2	1	0	12/31/91	Eigler <i>et al.</i>	435	176	01/13/89
	BH	5	0	8	2	9	3	5	01/21/92	Cruikshank	536	27	12/15/88
	BI	5	1	0	6	7	2	7	04/21/92	Hartley <i>et al.</i>	435	6	07/13/90
	BJ	5	1	0	8	7	0	3	04/28/92	Pfost <i>et al.</i>	422	65	05/10/91
	BK	5	1	1	2	7	3	4	05/92	Kramer <i>et al.</i>	435	6	05/26/89
	BL	5	1	1	2	7	3	6	05/92	Caldwell <i>et al.</i>	435	6	06/14/89
	BM	5	1	1	4	8	3	9	05/92	Blocker	435	6	05/26/89
	BN	5	1	1	8	6	0	5	06/02/92	Urdea	435	6	09/29/88
	BO	5	1	1	8	9	3	7	06/02/92	Hillenkamp <i>et al.</i>	250	282	08/21/90
	BP	5	1	3	0	5	3	8	07/14/92	Fenn <i>et al.</i>	250	282	10/10/91
	BQ	5	1	3	5	8	7	0	09/92	Williams <i>et al.</i>	436	86	6/1/90
	BR	5	1	3	7	8	0	6	08/92	Lamaistre <i>et al.</i>	435	6	12/11/89
	BS	5	1	4	9	6	2	5	09/22/92	Church <i>et al.</i>	435	6	03/28/90
	BT	5	1	7	1	9	8	9	12/15/92	Williams <i>et al.</i>	250	288	01/24/92
	BU	5	1	7	4	9	6	2	12/29/92	Brennan	422	78	01/24/90
AC	BV	5	1	8	5	2	4	3	02/09/93	Ullman <i>et al.</i>	435	6	08/25/88

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ACG	BW	5	2	0	2	2	3	1	04/93	Drmanac <i>et al.</i>	435	6	06/18/91
	BX	5	2	0	2	5	6	1	04/13/93	Giessmann <i>et al.</i>	250	281	05/31/91
	BY	5	2	1	0	4	1	2	05/11/93	Levis <i>et al.</i>	250	288	01/31/91
	BZ	5	2	1	9	7	2	6	06/93	Evans	435	6	06/15/93
	CA	5	2	2	1	5	1	8	06/93	Mills	422	62	08/13/91
	CB	5	2	3	7	0	1	6	08/17/93	Ghosh <i>et al.</i>	525	329.4	01/06/89
	CC	5	2	4	0	8	5	9	08/31/93	Aebersold	436	89	08/31/93
	CD	5	2	4	2	9	7	4	09/07/93	Holmes	525	54.11	11/22/91
	CE	5	2	4	6	8	6	5	09/21/93	Stolowitz	436	89	09/21/93
	CF	5	2	6	2	1	2	8	11/16/93	Leighton <i>et al.</i>	422	100	10/23/89
	CG	5	2	8	8	6	4	4	02/22/94	Beavis <i>et al.</i>	436	94	11/13/92
	CH	5	3	0	6	6	1	9	04/26/94	Edwards <i>et al.</i>	435	6	06/22/93
	CI	5	3	7	3	1	5	6	12/13/94	Franzen	250	288	01/27/93
	CJ	5	3	7	4	5	5	9	12/20/94	Devienne	436	34	12/16/92
	CK	5	3	7	6	7	8	8	12/27/94	Standing <i>et al.</i>	250	287	05/26/93
	CL	5	3	8	0	8	3	3	01/10/95	Urdea <i>et al.</i>	536	22.1	12/13/91
	CM	5	3	8	1	0	0	8	01/10/95	Tanner <i>et al.</i>	250	288	05/11/93
	CN	5	3	8	2	7	9	3	01/17/95	Weinberger <i>et al.</i>	250	288	03/06/92
	CO	5	4	1	2	0	8	7	05/02/95	McGall <i>et al.</i>	536	24.3	04/24/92
	CP	5	4	2	4	1	8	6	06/13/95	Fodor <i>et al.</i>	435	6	12/06/91
	CQ	5	4	3	0	1	3	6	07/04/95	Urdea <i>et al.</i>	536	243	07/27/90
	CR	5	4	3	6	3	2	7	07/25/95	Southern <i>et al.</i>	536	25.34	03/20/91
	CS	5	4	7	4	8	9	5	12/12/95	Ishii <i>et al.</i>	435	6	05/13/93
AC	CT	5	4	7	8	8	9	3	12/26/95	Ghosh <i>et al.</i>	525	329.4	08/05/93

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ALSH	CU	5	4	8	2	8	3	6	01/09/96	Cantor <i>et al.</i>	435	6	01/14/93
	CV	5	4	8	4	7	0	1	01/16/96	Cocuzza <i>et al.</i>	435	6	01/31/92
	CW	5	5	0	3	9	8	0	04/02/96	Cantor	435	6	10/17/94
	CX	5	5	0	3	9	8	0	04/02/96	Cantor	435	6	10/17/94
	CY	5	5	0	6	3	4	8	04/09/96	Pieles	536	23.1	02/24/94
	CZ	5	5	1	0	6	1	3	04/23/96	Reilly <i>et al.</i>	250	287	06/07/95
	DA	5	5	1	2	2	9	5	04/30/96	Kornberg <i>et al.</i>	424	450	11/10/94
	DB	5	5	1	2	4	3	9	04/30/96	Hornes <i>et al.</i>	435	6	07/06/94
	DC	5	5	1	4	5	4	8	05/07/96	Krebber <i>et al.</i>	435	6	02/17/94
	DD	5	5	2	7	6	8	1	06/18/96	Holmes	435	6	11/05/92
	DE	5	5	4	1	3	1	3	07/30/96	Ruth	536	24.3	11/09/94
	DF	5	5	4	5	5	3	9	08/13/96	Miller	435	91.2	10/18/94
	DG	5	5	4	7	8	3	5	08/20/96	Köster	435	6	01/06/94
	DH	5	5	4	7	8	3	5	08/20/96	Koster	435	6	01/06/94
	DI	5	5	4	7	8	3	9	08/20/96	Dower	435	6	12/06/90
	DJ	5	5	7	8	4	4	4	11/26/96	Edwards <i>et al.</i>	435	6	12/20/93
	DK	5	5	8	0	7	3	3	12/03/96	Levis <i>et al.</i>	435	6	09/06/94
	DL	5	6	0	5	6	6	2	02/25/97	Heller	422	68.1	11/01/93
	DM	5	6	0	5	7	9	8	02/25/97	Köster <i>et al.</i>	435	6	03/17/95
	DN	5	6	2	2	8	2	4	04/22/97	Köster	435	6	02/10/95
	DO	5	6	2	4	7	1	1	04/29/97	Sundberg <i>et al.</i>	427	261	04/27/95
	DP	5	6	2	5	1	8	4	04/29/97	Vestal <i>et al.</i>	250	287	05/19/95
KA	DQ	5	6	2	7	3	6	9	05/06/97	Vestal <i>et al.</i>	250	287	06/07/95
KE	DR	5	6	3	1	1	3	4	05/20/97	Cantor	435	6	06/05/95

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ACST	DS	5	6	3	1	1	3	4	05/20/97	Cantor	435	6	01/05/95
	DT	5	6	4	1	9	5	9	06/24/97	Holle <i>et al.</i>	250	287	03/21/96
	DU	5	6	4	3	7	2	2	07/01/97	Rothschild <i>et al.</i>	435	6	05/11/94
**	DV	5	6	5	0	2	7	4	07/1997	Kambara <i>et al.</i>	435	6	06/22/94
	DW	5	6	5	4	5	4	5	08/05/97	Holle <i>et al.</i>	250	287	04/04/96
	DX	5	6	6	3	2	4	2	09/02/92	Ghosh <i>et al.</i>	525	329.4	03/31/95
	DY	5	6	7	0	3	8	1	09/23/97	Jou <i>et al.</i>	436	518	05/08/95
	DZ	5	6	7	7	1	9	5	10/14/97	Winkler <i>et al.</i>	436	518	11/20/92
	EA	5	6	9	1	1	4	1	11/25/96	Koster	435	6	06/06/95
	EB	5	6	9	1	1	4	1	11/25/97	Köster	435	6	01/06/95
	EC	5	6	9	3	4	6	3	12/02/97	Edwards <i>et al.</i>	435	6	12/23/92
	ED	5	7	0	0	6	4	2	12/23/97	Monforte	435	6	05/22/95
	EE	5	7	1	6	7	8	0	02/10/98	Edwards <i>et al.</i>	435	6	06/07/95
	EF	5	7	2	6	0	1	4	03/10/98	Edwards <i>et al.</i>	435	6	09/17/93
	EG	5	7	3	8	9	9	0	04/14/98	Edwards <i>et al.</i>	435	6	06/07/95
	EH	5	7	4	2	0	4	9	04/21/98	Holle <i>et al.</i>	250	282	03/20/96
	EI	5	7	4	4	1	3	1	04/28/98	Edwards <i>et al.</i>	424	8.08	06/07/95
	EJ	5	7	4	6	3	7	3	05/05/98	Sanada	239	102.2	02/21/96
	EK	5	7	5	3	4	3	9	05/19/98	Smith <i>et al.</i>	435	6	05/19/95
	EL	5	7	6	0	3	9	3	06/02/98	Vestal <i>et al.</i>	250	282	10/17/96
	EM	5	7	7	0	4	5	6	06/23/98	Holmes	436	518	05/13/96
	EN	5	7	7	7	3	2	4	07/07/98	Hillenkamp	250	288	09/09/96
	EO	5	7	7	7	3	2	5	07/07/98	Weinberger <i>et al.</i>	250	287	05/06/96
	EP	5	7	9	5	7	1	4	08/18/98	Cantor <i>et al.</i>	435	6	08/23/93

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ACSH	EQ	5	7	9	5	7	1	4	08/18/98	Cantor <i>et al.</i>	435	6	08/23/93
	ER	5	8	0	0	9	9	2	09/01/98	Fodor <i>et al.</i>	435	6	06/25/96
	ES	5	8	0	7	5	2	2	09/15/98	Brown <i>et al.</i>	422	50	06/07/95
	ET	5	8	2	1	0	6	3	10/13/98	Patterson <i>et al.</i>	435	6	04/18/97
	EU	5	8	3	0	6	5	5	11/03/98	Monforte <i>et al.</i>	435	6	04/26/96
	EV	5	8	6	4	1	3	7	01/26/99	Becker <i>et al.</i>	250	287	10/01/96
	EW	5	8	6	9	2	4	0	02/09/99	Patterson	435	6	05/19/95
	EX	5	8	6	9	2	4	2	02/09/99	Kamb	435	6	09/18/95
	EY	5	8	7	1	9	2	8	02/16/99	Fodor <i>et al.</i>	435	6	06/11/97
	EZ	5	8	8	5	7	7	5	03/23/99	Haff <i>et al.</i>	435	6	10/4/96
	FA	5	8	9	4	0	6	3	04/13/99	Hutchens <i>et al.</i>	436	155	01/17/97
	FB	5	9	0	0	4	8	1	05/04/99	Lough <i>et al.</i>	536	55.3	11/06/96
	FC	5	9	0	2	7	2	3	05/11/99	Dower <i>et al.</i>	435	6	07/12/96
	FD	5	9	2	5	5	2	5	07/20/99	Fodor <i>et al.</i>	435	6	04/03/98

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes No	
	FE	0	3	5	9	2	2	5	03/21/90	EPO				
	FF	0	3	6	0	6	7	6	03/28/90	EPO				
	FG	0	3	6	0	6	7	7	09/18/89	EP				
	FH	0	3	6	0	6	7	7	03/28/90	EP			X*	
	FI	0	3	7	1	4	3	7	06/06/90	EPO				
	FJ	0	3	9	2	5	4	6	12/04/90	EP				
	FK	0	3	9	6	1	1	6	11/07/90	EP				
	FL	0	4	1	2	8	8	3	02/13/91	EP A1			X*	

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													Yes	No
ACSA	FM	0	4	5	5	9	0	5	11/13/91	EP				
	FN	0	4	5	6	3	0	4	11/13/91	EP A1				
	FO	0	6	3	0	9	7	2	12/28/94	EP				
	FP	0	7	0	1	0	0	1	03/13/96	EP A2				
	FQ	2	2	1	5	3	9	9	08/28/90	JP			X*	
	FR	2	5	9	7	2	6	0	10/16/87	FR A1			X*	
	FS	3	2	2	1	6	8	1	12/08/83	DE A1			X*	
	FT	3	9	3	0	3	1	2	04/26/90	Germany				
	FU	3	9	3	0	3	1	2	04/26/90	DE			X*	
	FV	4	0	1	1	9	9	1	10/18/90	Germany				
	FW	4	0	1	1	9	9	1	10/18/90	DE			X*	
	FX	6	2	9	4	7	9	6	10/21/94	JP			X*	
	FY	6	3	2	3	00	8	6	09/26/88	JP			X*	
	FZ	8	2	9	0	3	7	7	11/05/96	JP			X*	
	GA	8	9	0	3	4	3	2	04/20/89	PCT				
	GB	8	9	0	9	2	8	2	10/05/89	PCT				
	GC	8	9	0	9	4	0	6	10/05/89	PCT			X*	
	GD	8	9	1	0	9	7	7	11/16/89	PCT				
	GE	8	9	1	2	6	9	4	12/28/89	PCT				
	GF	8	9	1	2	6	9	4	12/28/89	PCT				
	GG	9	0	0	1	5	6	4	02/22/90	PCT				
AC	GH	9	0	0	3	3	8	2	04/05/90	PCT				
	GI	9	0	0	7	5	8	2	07/12/90	PCT				
AC	GJ	9	0	1	4	1	4	8	11/29/90	PCT				

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LIST OF PATENTS AND PUBLICATIONS FOR  
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FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation	
													Yes	No
<del>ES</del>	GK	9	0	1	4	1	4	8	11/29/90	PCT				
	GL	9	0	1	5	8	8	3	12/27/90	PCT				
	GM	9	1	0	5	0	6	0	04/18/91	PCT				
	GN	9	1	0	6	6	7	8	05/16/91	PCT				
	GO	9	1	1	1	5	3	3	08/08/91	PCT				
	GP	9	2	0	2	6	3	5	02/20/92	PCT				
	GQ	9	2	0	3	5	7	5	03/05/92	PCT				
	GR	9	2	0	7	8	7	9	05/14/92	PCT				
	GS	9	2	1	0	0	9	2	06/25/92	PCT				
	GT	9	2	1	0	5	8	8	06/25/92	PCT				
	GU	9	2	1	3	6	2	9	08/20/92	PCT				
	GV	9	3	0	6	9	2	5	04/15/93	PCT				
	GW	9	3	0	9	6	6	8	05/27/93	PCT				
	GX	9	4	0	0	1	9	3	06/01/94	PCT				
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	HH	9	5	3	0	7	7	3	11/16/95	PCT				

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*Aron W. Chakrabarti*

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## FOREIGN PATENT DOCUMENTS

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	HL	9	6	2	9	4	3	1	09/26/96	PCT	1			
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	IE	9	8	5	4	7	5	1	12/03/98	PCT	1			

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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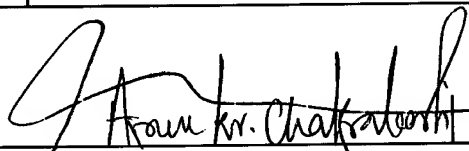
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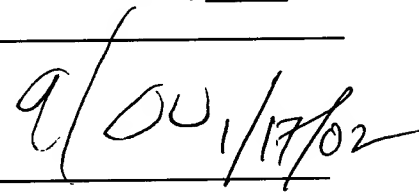
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ACSA	IF	Agrawal <i>et al.</i> , Efficient methods for attaching non-radioactive labels to the 5' ends of synthetic oligodeoxyribonucleotides, <u>Nucleic Acids Res.</u> 14:6227-6245 (1986)
	IG	Alderton <i>et al.</i> , Magnetic bead purification of M13 DNA sequencing templates, <u>Anal. Biochem.</u> 201:166-169 (1992)
	IH	Andersen, <i>et al.</i> , Electrospray ionization and matrix assisted laser desorption/ionization mass spectrometry: Powerful analytical tools in recombinant protein chemistry, <u>Nature Biotech.</u> 14:449-457 (1996).
	II	Ardrey, "Electrospray mass spectrometry", <u>Spectroscopy Europe</u> 4(4):10-18 (1992).
~ **	IJ	Argarana <i>et al.</i> , Molecular cloning and nucleotide sequence of the streptavidin gene, <u>Nuc Acids Res.</u> 14(4):1871-1882 (1986)
	IK	Arlinghouse <i>et al.</i> , Applications of resonance ionization spectroscopy for semiconductor, environmental dn biomedical analysis, and for DNA sequencing, <u>SPIE</u> 1435:26-35 (1991)
	IL	Arrand, Preparation of nucleic acid probes, <u>Nucleic Acid Hybridisation, A Practical Approach</u> , Chapter 2, pp. 17-44 (1985)
	IM	Arshady, Reza; Review: Beaded Polymer Supports and Gels, I. Manufacturing Techniques; <u>Journal of Chromatography</u> , 586 (1991); pp.181-197
	IN	Arshady, Reza; Review: Beaded Polymer Supports and Gels, II. Physico-Chemical Criteria and Functionalization; <u>Journal of Chromatography</u> , 586 (1991); pp.199-219
	IO	Axelrod <i>et al.</i> , Transcription from bacteriophage T7 and SP6 RNA polymerase promoters in the presence of 3'-deoxyribonucleoside 5'-thiophosphate chain terminators, <u>Biochemistry</u> 24:5716-5723 (1985)
	IP	Baines, DNA sequencing by mass spectrometry. Outline of a potential future application, <u>Chimicaoggi</u> pp. 13-16 (1991)
	IQ	Bains W., DNA sequencing by mass spectrometry. Outline of a potential future application, <u>Chimicaoggi</u> , October (1991).
	IR	Bains, Setting a sequence to sequence a sequence, <u>Bio/Tech</u> 10:757-758 (1992)
	IS	Bains, W., Hybridization methods for DNA sequencing, <u>Genomics</u> 11:294-301 (1991)
	IT	Bannwarth, Solid-phase synthesis of oligodeoxynucleotides containing phosphoramidate internucleotide linkages and their specific chemical cleavage, <u>Helvetica Chimica Acta</u> 71:1517-1527 (1988)
AC	IU	Barrell B., "DNA sequencing: present limitations and prospects for the future", <u>FASEB Journal</u> 5:40-45 (1991).

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LIST OF PATENTS AND PUBLICATIONS FOR  
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ACSH	IV	Batista-Viera <i>et al.</i> , A new method for reversible immobilization of thiol biomolecules based on solid-phase bound thiolsulfonate groups, <u>App. Biochem and Biotech</u> , 31:175-195 (1991).
	IW	Beck, Applications of dioxetane chemiluminescent probes to molecular biology, <u>Analytical Chemistry</u> 62:2258-2270 (1990)
	IX	Beck <i>et al.</i> , "Chemiluminescent detection of DNA: Application of DNA sequencing and hybridization", <u>Nucleic Acids Res.</u> 17(13):5115-5123 (1989)
	IY	Berkenkamp <i>et al.</i> , Infrared MALDI mass spectrometry of large nucleic acids, <u>Science</u> 281:260-2 (1998).
	IZ	Billings PR <i>et al.</i> , New techniques for physical mapping of the human genome, <u>FASEB J</u> 5(1):28-34 (1991)
	JA	Braun <i>et al.</i> , Improved Analysis of Microsatellites Using Mass Spectrometry, <u>Genomics</u> 46:18-23(1997).
	JB	Braun <i>et al.</i> , Detecting <i>CFTR</i> gene mutations by using primer oligo base extension and mass spectrometry, <u>Clinical Chemistry</u> 43:1151-1158 (1997).
	JC	Brennan <i>et al.</i> , New methods to sequence DNA by mass spectrometry, <u>SPIE</u> , vol. 1206, <u>New Technol. Cytom. Mol. Biol.</u> pp. 60-77 (1990)
	JD	Brenner, Encoded combinatorial chemistry, <u>Proc. Natl. Acad. Sci. USA</u> 89:5381-5383 (1992)
	JE	Broude <i>et al.</i> , Enhanced DNA sequencing by hybridization, <u>Proc. Natl. Acad. Sci. USA</u> 91:3072-3076 (1994).
	JF	Brown, <i>et al.</i> , "A single-bead decode strategy using electrospray ionization mass spectrometry and a new photolabile linker: 3-amino-3-(2-nitrophenyl) propionic acid", <u>Mol. Diversity</u> 1:4-12(1995).
	JG	Brumbaugh, Continuous, on-line DNA sequencing using oligodeoxynucleotide primers with multiple fluorophores, <u>Proc. Natl. Acad. Sci USA</u> 85:5610-5614 (1988)
	JH	Caldwell <i>et al.</i> , Mid-infrared matrix assisted laser desorption ionization with a water/glycerol matrix, <u>Applied Surface Science</u> 127-129:242-247 (1998).
AC	JI	Cantor CR <i>et al.</i> , The future of DNA sequencing: methods and applications, In <u>Mass Spectrometry in the Biological Sciences</u> , A.L. Burlingame and S.A. Carr eds., Totawa, NJ: Humana Press, 519-533 (1996)

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	APPLICANT CANTOR <i>et al.</i>	
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A S W	JJ	Cantor <i>et al.</i> , Parallel processing in DNA analysis, In Proceedings of 2nd International Workshop on Parallel Algorithms for Irregularly Structured Problems, Lyon, France: Lecture Notes in Computer Science 980, eds. A. Ferreira, J. Rolim, Springer Verlag, Berlin, New York 171-185 (1995)
	JK	Cantor CR <i>et al.</i> , Pulsed-field gel electrophoresis of very large DNA molecules, In Annual Review of Biophysics and Biophysical Chemistry, ed. D.N. Engelman, C.R. Cantor, and T.D. Pollard, Annual Reviews Inc., Palo Alto, p. 287-304 (1988)
	JL	Cantor CR and Fields CA, Meeting report: Genome Sequencing Conference III: Evolution and Progress, <u>Genomics</u> 12:419-420 (1992)
	JM	Cantor CR <i>et al.</i> , DNA sequencing after the human genome project, <u>Nucleosides and Nucleotides</u> 16:591-598 91997)
	JN	Cantor CR, Budgeting the genome, <u>Trends in Biotech</u> 10:6-7 (1992)
	JO	Cantor CR <i>et al.</i> , Lighting up hybridization, <u>Nature Biotech.</u> 14:264
	JP	Cantor CR <i>et al.</i> , Report on the sequencing by hybridization workshop, <u>Genomics</u> 13:1378-1383 (1992)
	JQ	Cantor CR <i>et al.</i> , Massive attack on high-throughput biology, <u>Nat. Genet.</u> 20:5 (1998)
	JR	Cantor CR <i>et al.</i> , Instrumentation in molecular biomedical diagnostics: an overview, <u>Genetic Analysis</u> (Biomol. Eng.) 14:31-36 (1997)
	JS	Certified English translation of European patent 0412883A1, Fast screening and/or identification of a single base on a nucleic acid sequence, including applications.
	JT	Certified English translation of Japanese patent 6-294796, Nucleic acid analysis method.
	JU	Chrisey <i>et al.</i> , Fabrication of patterned DNA surfaces, <u>Nucl. Acids. Res.</u> 24:3040-3047 (1996)
	JV	Chrisey <i>et al.</i> , Covalent attachment of synthetic DNA to self-assembled monolayer films, <u>Nucl. Acids Res.</u> 24:3031-3039 (1996).
	JW	Chu, <i>Synthesis of an Amplifiable Reporter RNA for Bioassays</i> 14(14):5591-5603 (1986)
	JX	Church <i>et al.</i> , "Multiplex DNA Sequencing", <u>Science</u> 240:185-188 (1988).
A S W	JY	Covey, <i>et al.</i> , The determination of protein, oligonucleotide and peptide molecular weights by ion-spray mass spectrometry, <u>Rapid Comm. Mass Spectrom.</u> 2:249-256 (1988).
	JZ	Crain, "Mass spectrometric techniques in nucleic acid research", <u>Mass Spectr. Rev.</u> 9:505-554 (1990).

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LIST OF PATENTS AND PUBLICATIONS FOR  
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AC 54	KA	Damha, Masad J. et al.; An Improved Procedure for Derivatization of Controlled-Pore Glass Beads for Solid-Phase Oligonucleotide Synthesis; Nucleic Acids Research Vol. 18, No. 13 (1990); pp.3813-3821
1	KB	Database WPI, Derwent Publications #199502, citing Japanese Patent No. 6294796, Analysing nucleic acids in sample - by adding DNA probes to sample, hybridising and sepg. probes.
	KC	Database WPI, Derwent Publication #199015, citing European Patent No. 0360677, Identification of sub-units in complex moles. - by mass spectrometry, especially in nucleic acid sequencing.
	KD	Database WPI, Derwent Publication, AN88-311964, JP63230086 A 880926 DW8844, Carry immobilise physiological active substance comprise bind chain form di sulphide compound epoxy group latex contain polymer particle.
	KE	Database WPI, Derwent Publications #108350, citing German patent 3221681, Mass spectrometer with external specimen holder - is esp. vor vaporising and ionising sample and has thin polymer foil providing vacuum at entry window
	KF	Database WPI, Derwent Publications #198942, citing International PCT Application No. WO 89/09406 published 10/05/89
	KG	Database WPI, Derwent Publications #198749, citing French patent 2597260, Sample introduction system for mass spectrometry - has table carrying sample series inserted in spectrometer chamber and rotated to present each to source in turn
	KH	Database WPI, Derwent Publications #199043, citing German patent 4011991, Simultaneous sequencing of several DNA samples - by cloning into separate vectors, complementary strand synthesis from specific fluorescent labelled primers, electrophoretic sepn. etc.
	KI	Database WPI, Derwent Publications, citing Japanese patent 2215399, Method for detecting DNA - includes de-naturing to single strand, combining with DNA primer having corresp. base sequence forming replicator etc.
	KJ	Database WPI, Derwent Publications #199703, citing Japanese Patent No. 8290377 published 11/05/96
	KK	Database WPI, Derwent Publications #199018, citing German patent 3930312, Nucleic acid sequencing - involving amplification-denaturation cycles in presence of deoxy-nucleoside alpha-thio-triphosphate
	KL	Drmanac, <i>et al.</i> , "Sequencing of megabase plus DNA by hybridization: theory of the method", <u>Genomics</u> 4:114-128 (1989).
AC 1	KM	Drmanac <i>et al.</i> , Laboratory methods: reliable hybridization of oligonucleotides as short as six nucleotides, <u>DNA &amp; Cell Biology</u> 9(7):527-534 (1990)

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AGS	KN	Drmanac <i>et al.</i> , An algorithm for the DNA sequence generation from K-tuple word contents of the minimal number of random fragments, <i>J. of Biomolecular Structure &amp; Dynamics</i> 8(5):1085-1102 (1991)
	KO	Eckstein, Nucleoside phosphorothioates, <i>Ann. Rev. Biochem.</i> 54:367-402 (1985)
	KP	Eckstein, Phosphorothioate analogues of nucleotides, <i>Accounts of Chemical Res., American Chemical Society</i> 79:204-210 (1979)
	KQ	Eckstein, <i>Oligonucleotides and Analogues: A Practical Approach</i> , Oxford University Press pp. 54-57, pp. 256-259 (1991)
	KR	Eckstein, Synthesis and properties of diastereoisomers of adenosine 5'-(O-1-thiotriphosphate) and adenosine 5'-(O-2-thiotriphosphate), <i>Biochemistry</i> 15(8):1685-1691 (1976)
	KS	Edmonds <i>et al.</i> , Thermospray liquid chromatography-mass spectrometry of nucleosides and of enzymatic hydrolysates of nucleic acids, <i>Nucleic Acids Research</i> 13:8197-8206 (1985).
	KT	Edmonds, Electrospray ionization mass spectrometry, <i>Methods in Enzymology</i> 193:412-431 (1990)
	KU	Eggers <i>et al.</i> , A microchip for quantitative detection of molecules utilizing luminescent and radioisotope reporter groups, <i>BioTechniques</i> 17:516-524 (1994)
	KV	Ehring <i>et al.</i> , Photochemical versus thermal mechanisms in matrix-assisted laser desorption/ionization probed by back side desorption, <i>Rapid Comm in Mass Spect</i> 10:821-824 (1996).
	KW	Flato, New technologies and players change the role of mass spectroscopy, <i>Genetic Engineering News</i> , p. 20 (1995)
	KX	Frank, DNA chain length markers and the influence of base composition on electrophoretic mobility of oligodeoxyribonucleotides in polyacrylamide-gels, <i>Nuc Acids Res.</i> 6(6):2069-2087 (1979)
	KY	Fu <i>et al.</i> , Efficient preparation of short DNA sequence ladders potentially suitable for MALDI-TOF DNA sequencing, <i>Genetic Analysis</i> 12:137-142 (1996).
	KZ	Fu <i>et al.</i> , Sequencing exons 5 to 8 of the p53 gene by MALDI-TOF mass spectrometry, <i>Nat Biotechnol</i> 16:381-4 (1998).
He	LA	Fu <i>et al.</i> , A DNA sequencing strategy which requires only five bases of known terminal sequence for priming, Paper presented, Genome Mapping and Sequencing, Cold Spring Harbor Laboratory.

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AC 54	LB	Fu, <i>et al.</i> , "A DNA sequencing strategy that requires only five bases of known terminal sequence for priming (primer extension/stacking interaction/fluorescein/solid state/duplex probe)", <u>Proc. Natl. Acad. Sci. USA</u> 92:10162-10166 (1995).
	LC	Fu <i>et al.</i> , Sequencing double-stranded DNA by strand displacement, <u>Nucl Acids Res</u> 25:677-679 (1997).
	LD	Fujita <i>et al.</i> , Surprising lability of biotin-streptavidin bond during transcription of biotinylated DNA bound to paramagnetic beads, <u>BioTechniques</u> 14:608-617 (1993)
	LE	Ganem <i>et al.</i> , Detection of oligonucleotide duplex forms by ion-spray mass spectrometry, <u>Tetrahedron Letters</u> 34:1445-1448, (1993).
	LF	Gennis <i>et al.</i> , Optical properties of specific complexes between complementary oligoribonucleotides, <u>Biochemistry</u> 9(24) (1970)
	LG	Ghosh, <i>et al.</i> , "Covalent attachment of oligonucleotides to solid supports", <u>Nuc. Acids. Res.</u> 15(13):5353-5372 (1987).
	LH	Gildea <i>et al.</i> , A versatile acid-labile linker for modification of synthetic biomolecules, <u>Tetrahedron Letters</u> 31(49):7095-7098 (1990)
	LI	Graber <i>et al.</i> , Advanced in DNA diagnostics, <u>Curr. Pin. Biotechnol.</u> 9:14 (1998)
	LJ	Green, Variable-wavelength on-column fluorescence detector for open-tubular zone electrophoresis, <u>J. of Chromatography</u> 352:337-343 (1986)
	LK	Greene and Wuts, <u>Protective Groups in Organic Synthesis</u> , 2nd Edition, Wiley & Sons (1991)
	LL	Gross <i>et al.</i> , Investigations of the metastable decay of DNA under ultraviolet matrix-assisted laser desorption/ionization conditions with post-source-decay analysis and hydrogen/deuterium exchange, <u>J Amer Soc for Mass Spect</u> 9:866-878 (1998).
	LM	Grothues <i>et al.</i> , PCR amplification of megabase DNA with tagged random primers (T-PCR), <u>Nuc. Acids Res.</u> 21:1321-1322 (1993)
	LN	Gruić-Sovulj I. <i>et al.</i> , Matrix-assisted laser desorption/ionisation mass spectrometry of transfer ribonucleic acids isolated from yeast, <u>Nucleic Acids Res.</u> 25(9):1859-61 (1997).
	LO	Haglund <i>et al.</i> , Matrix-assisted laser-desorption mass spectrometry of DNA using an infrared free-electron laser, <u>SPIE</u> 1854:117-128.
	LP	Hames, B.D. and Higgins, S.J. ed. <u>Nucleic Acid Hybridization: A Practical Approach</u> , IRL Press: Oxford (1985)
AC	LQ	Haralambidis, Preparation of base-modified nucleosides suitable for non-radioactive label attachment and their incorporation into synthetic oligodeoxynucleotides, <u>Nuc Acids Res</u> 15(12):4857-4876 (1987)

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AC56	LR	Hayashi, Toshio <i>et al.</i> ; Immobilization of Thiol Proteases onto Porous Poly(Vinyl Alcohol) Beads; <i>Polymer Journal</i> Vol. 25, No. 5 (1993); pp.489-497
	LS	Heermann, <i>et al.</i> , "Liquid-phase hybridization and capture of hepatitis B virus DNA with magnetic beads and fluorescence detection of PCR product", <i>J. of Virol. Methods</i> 50:43-58 (1994).
	LT	Higuchi, A general method of in vitro preparation and specific mutagenesis of DNA fragments: study of protein and DNA interactions, <i>Nuc Acids Res</i> 16:7351-7367 (1988)
	LU	Hillenkamp and Ehring, Laser desorption mass spectrometry Part 1: Basic mechanisms and techniques, <i>Mass Spectrometry in the Biological Sciences: A tutorial</i> , pp. 165-179 (1992).
	LV	Hillenkamp <i>et al.</i> , Matrix assisted UV-laser desorption/ionization: A new approach to mass spectrometry of large biomolecules, <i>Bio mass Spectr.</i> , Burlingame and McCloskey (eds.), pp. 49-61, Elsevier Science Publishers B.V., Amsterdam (1989).
	LW	Hobbs, A general method for the synthesis of 2'-azido-2'-deoxy-and 2'-amino-2'-deoxyribofuranosyl purines, <i>J. Org. Chem.</i> 42(4):714-719 (1977)
	LX	Hornes and Korsnes, Magnetic DNA hybridization of oligonucleotide probes attached to superparamagnetic beads and their use in the isolation of Poly(A) mRNA from eukaryotic cells, <i>GATA</i> 7:145-150, (1990)
	LY	Hsiung <i>et al.</i> , A new simpler photoaffinity analogue of peptidyl rRNA, <i>Nucl Acids Res</i> 1:1753-1762 (1974).
	LZ	Hultman <i>et al.</i> , Direct solid phase sequencing of genomic and plasmid DNA using magnetic beads as solid support, <i>Nucl. Acids Res.</i> 17:4937-4946 (1989)
	MA	Huth-Fehre, Matrix-assisted laser desorption mass spectrometry of oligodeoxythymidylic acids, <i>Rapid Comm. in Mass Spectrometry</i> 6:209-213 (1992)
	MB	Hyman, A new method of sequencing DNA, <i>Anal. Biochem.</i> 174:423-436 (1988)
	MC	Ikehara, Studies of nucleosides and nucleotides. LXXIX, <i>Chem. Pharm. Bull.</i> 26:240-244 (1978)
	MD	Imazawa, Facile synthesis of 2'-amino-2'-deoxyribofuranosyl purines, <i>J. Org. Chem.</i> 44(12):2039-2041 (1979)
	ME	Innis <i>et al.</i> , DNA sequencing with <i>Thermus aquaticus</i> DNA polymerase and direct sequencing of polymerase chain reaction-amplified DNA, <i>Proc. Natl. Acad. Sci. USA</i> 85:9436-9440 (1988)
AC	MF	Innis <i>et al.</i> , editors, PCR Protocols: A guide to methods and applications, Academic Press, San Diego (1990)

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MSH	MG	Ito T <i>et al.</i> , Triplex affinity capture of a single copy clone from a yeast genomic library, <u>Nuc. Acids. Res.</u> 20:3524 (1992)
	MH	Ito T <i>et al.</i> , Sequence-specific DNA purification by triplex affinity capture, <u>Proc. Natl. Acad. Sci. USA</u> 89:495-498 (1992)
	MI	Jacobson, <i>et al.</i> , "Applications of mass spectrometry to DNA sequencing", <u>GATA</u> 8(8):223-229 (1991).
	MJ	Jacobson <i>et al.</i> , Applications of Mass Spectrometry to DNA Sequencing, <u>GATA</u> No. 8 8(8):223-229 (1991)
	MK	Jardine, Electrospray ionization mass spectrometry of biomolecules, <u>Nature</u> 345(6277):747-748 (1990)
	ML	Jett <i>et al.</i> High-Speed NDA Sequencing: An Approach Based Upon Fluorescence Detection of single Molecules, <u>J. of Biomolecular Structure &amp; Dynamics</u> , 7(2):301-309 (1989)
	MM	Ji <i>et al.</i> , Two-dimensional electrophoretic analysis of proteins expressed by normal and cancerous human crypts: Application of mass spectrometry to peptide-mass fingerprinting, <u>Electrophoresis</u> 15:391-405 (1994).
	MN	Juhasz <i>et al.</i> , Applications of delayed extraction matrix-assisted laser desorption ionization time-of-flight mass spectrometry to oligonucleotide analysis, <u>Analy Chem</u> 68:941-946 (1996).
	MO	Jurinke <i>et al.</i> , Recovery of nucleic acids from immobilized biotin-streptavidin complexes using ammonium hydroxide and applications in MALDI-TOF mass spectrometry, <u>Anal. Chem.</u> 69:904-910 (1997).
	MP	Jurinke <i>et al.</i> , Detection of hepatitis B virus DNA in serum samples via nested PCR and MALDI-TOF mass spectrometry, <u>Genetic Analysis</u> 13:67-71 (1996).
	MQ	Jurinke <i>et al.</i> , Analysis of ligase chain reaction products via matrix-assisted laser desorption/ionization time-of-flight-mass spectrometry, <u>Analy Biochem</u> 237:174-181 (1996).
	MR	Jurinke <i>et al.</i> , Application of nested PCR and mass spectrometry for DNA-based virus detection: HBV-DNA detected in the majority of isolated anti-HBc positive sera, <u>Genetic Analysis</u> 14:97-102 (1998).
	MS	Khrapko <i>et al.</i> , "A method for DNA sequencing by hybridization with oligonucleotide matrix", <u>J. DNA Seq. and Mapping</u> 1:375-388 (1991).
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KS	MU	Kirpekar <i>et al.</i> , "7-deaza purine bases offer a higher ion stability in the analysis of DNA by matrix-assisted laser desorption/ionization mass spectrometry" <u>Rapid Commun. Mass Spectrom.</u> 9:525-531 (1995)
MV	-	Kirpekar <i>et al.</i> , DNA sequence analysis by MALDI mass spectrometry, <u>Nucleic Acids Res.</u> 26:2554-9 (1998).
MW		Koster <i>et al.</i> , N-Acyl protecting groups for deoxynucleosides, <u>Tetrahedron</u> , 37(2):363-369 (1981)
MX		Koster, Oligonucleotide synthesis and multiplex DNA sequencing using chemiluminescent detection, <u>Nuc Acids Res Symposium Series</u> 24:318-321 (1991)
MY		Köster <i>et al.</i> , Some improvements in the synthesis of DNA of biological interest, <u>Nucl Acids Res</u> 7:39-59 (1980).
MZ		Köster <i>et al.</i> , Polymer support oligonucleotide synthesis--XV <sup>1,2</sup> , <u>Tetrahedron</u> 40:102-112 (1984).
NA		Köster <i>et al.</i> , Well-defined insoluble primers for the enzymatic synthesis of oligo- and polynucleotides, <u>Hoppe-Seyler's Z. Physiol. Chem.</u> 359:11579-1589 (1978).
NB		Köster <i>et al.</i> , A strategy for rapid and efficient DNA sequencing by mass spectrometry, <u>Nature Biotech.</u> 14:1123-1128 (1996)
NC		Köster <i>et al.</i> , MALDI-TOF mass spectrometry - a new paradigm for DNA detection: towards high speed DNA sequencing and diagnostics, Cold Spring Harbor Laboratory.
ND		Kusmann, <i>et al.</i> , Matrix-assisted laser desorption/ionization mass spectrometry sample preparation techniques designed for various peptide and protein analytes, <u>J. Mass Spec.</u> 32:593-601 (1997).
NE		Lagerström <i>et al.</i> , Capture PCR: efficient amplification of DNA fragments adjacent to a known sequence in human and YAC DNA, <u>PCR Methods and Applications</u> Cold Spring Harbor Lab. Press, 1:111-119 (1991)
NF		Lamtur <i>et al.</i> , "Direct detection of nucleic acid hybridization on the surface of a charge coupled device", <u>Nucl. Acids Res.</u> 22:2121-2125 (1994).
NG		Landegren <i>et al.</i> , "DNA Diagnostics - Molecular techniques and automation", <u>Science</u> 242:229-237 (1988)
NH		Lane <i>et al.</i> , The thermodynamic advantage of DNA oligonucleotide 'stacking hybridization' reactions: energetics of a DNA nick, <u>Nuc Acids Res</u> 25(3):611-616 (1997) ✓
NI		Lawrance <i>et al.</i> , Megabase-scale mapping of the HLA gene complex by pulsed field gel electrophoresis, <u>Science</u> 235:1387-1389 (1987).

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ACSH	NJ	Li <i>et al.</i> , "Analysis of single mammalian cell lysates by mass spectrometry", <u>J. Am. Chem. Soc.</u> 118:11662-11663 (1996)
	NK	Li <i>et al.</i> , High-Resolution MALDI Fourier Transform Mass Spectrometry of Oligonucleotides, <u>Anal Chem</u> 68:2090-2096 (1996).
	NL	Lim, Optimal conditions for supercoil DNA sequencing with the excherichia coli DNA polymerase I large fradment, <u>Gene Anal. Techn</u> 5:32-39 (1988)
	NM	Liss, Alan R. "Macromolecular sequencing and synthesis selected methods and applications", Edited by David H. Schlesinger, Department of Experimental Medicine and Cell Biology, New York University Medical Center, New York, New York (1988).
	NN	Little <i>et al.</i> , Detection of RET proto-oncogene codon 634 mutations using mass spectrometry, <u>J. Mol Med.</u> 75:745-750 (1997).
	NO	Little <i>et al.</i> , Verification of 50- to 100-mer DNA and RNA sequences with high-resolution mass spectrometry, <u>Proc. Natl. Acad. Sci. USA</u> 92:2318-2322 (1995).
	NP	Little <i>et al.</i> , "MALDI on a Chip: Analysis of Arrays of Low-Femtomole to Subfemtomole Quantities of Synthetic Oligonucleotides and DNA Diagnostic Products Dispensed by a Piezoelectric Pipet", <u>Anal chem</u> 69:4540-4546 (1997).
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	NR	Little <i>et al.</i> , Direct detection of synthetic and biologically generated double-stranded DNA by MALDI-TOF MS, <u>J. Mass Spec</u> 17:1-8 (1997).
	NS	Little <i>et al.</i> , Identification of apolipoprotein E polymorphisms using temperature cycled primer oligo base extension and mass spectrometry, <u>Short Communiation</u> .
	NT	Lund, Vera et al.; Assessment of Methods for Covalent Binding of Nucleic Acids to Magnetic Beads, Dynabeads, and the Characteristics of the Bound Nucleic Acids in Hybridization Reactions; <u>Nucleic Acids Research</u> Vol. 16, No. 22 (1988)
	NU	Lysov <i>et al.</i> , DNA sequencing by hybridisation to oligonucleotide matrix. Calculation of continuous stacking hybridisation efficiency, <u>J Biomolec Struct Dynam.</u> , 11(4):797-812 (1994)
	NV	Lysov <i>et al.</i> , A new method for determining the DNA nucleotide sequence by hybridization with oligonucleotides, <u>Plenum Publishing Corporation</u> 436-438 (1989)
	NW	Manoharan <i>et al.</i> , A 2'-O-thiol tether in the ribose moiety of nucleic acids for conjugation chemistry, <u>Gene</u> , 149:147-156 (1994).
ACSH	NX	Marshall and Hodgson, "DNA chips: An array of possibilities", <u>Nature Biotechnology</u> 16:27-31 (1998)

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AGS/1	NY	Martin, "New technologies for large-genome sequencing", <u>Genome</u> 31:1073-1080 (1989).
	NZ	Maskos, Oligonucleotide hybridizations of glass supports: a novel linker for oligonucleotide synthesis and hybridization properties of oligonucleotides synthesized in Situ, <u>Nuc Acids Res</u> 20(7):1679-1684 (1992)
	OA	Maskos <i>et al.</i> , Parallel analysis of oligodeoxyribonucleotide (oligonucleotide) interactions. I. Analysis of factors influencing oligonucleotide duplex formation, <u>Nuc Acids Res</u> 20(7):1675-1678 (1992)
	OB	Matteucci <i>et al.</i> , Synthesis of deoxyoligonucleotides on a polymer support, <u>J. A. Chem. Soc.</u> 103:3185-3191, 1981
	OC	Matthews <i>et al.</i> , Review: Analytical strategies for the use of DNA probes, <u>Analytical Biochemistry</u> 169:1025 (1988)
	OD	Matthews, <i>et al.</i> , "Analytical strategies for the use of DNA probes", <u>Analytical Biochemistry</u> 169:1-25 (1988).
	OE	Maxam, A.M. and Gilbert, W., A new method for sequencing DNA, <u>Proc. Natl. Acad. Sci. USA</u> 74:560-64 (1977)
	OF	Maxam and Gilbert, Sequencing end-labeled DNA with base-specific chemical cleavages, <u>Methods in Enzymology</u> 65:499-560 (1980)
	OG	McClelland <i>et al.</i> , Purification of <i>Mbo</i> II methylase (GAAGmA) from <i>Moraxella bovis</i> : site specific cleavage of DNA at nine and ten base pair sequences, <u>Nucleic Acids Res.</u> 13:7171 (1985)
	OH	Mizusawa, Improvement of the dideoxy chain termination method of DNA sequencing by use of deoxy-7-deazaguanosine triphosphate in place of dGTP, <u>Nucleic Acids Res.</u> 14(3):1319-1325 (1986)
	OI	<u>Molecular Cloning: A laboratory manual</u> , 2nd, ed., Ch. 11: Synthetic oligonucleotide probes, Sambrook, Cold Spring Harbor Laboratory Press New York, pp. 11.1-11.61 (1989)
	OJ	Monforte and Becker, High-throughput DNA analysis by time-of-flight mass spectrometry, <u>Nature Medicine</u> 3:360-362 (1997).
	OK	Mosca <i>et al.</i> , Mass spectrometry and DNA analysis, <u>Hemoglobin</u> 17(3):261-268 (1993).
AC	OL	Murray, "DNA sequencing by mass spectrometry", <u>J. Mass. Spect.</u> 31:1203-1215 (1996).

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AC54	OM	Nakamaye, Direct sequencing of polymerase chain reaction amplified DNA fragments through the incorporation of deoxynucleoside $\alpha$ -thiotriphosphates, <i>Nucleic Acids Research</i> , 16(21):9946-9959 (1988)
	ON	Neilsen <i>et al.</i> , Sequence-selective recognition of DNA by strand displacement with a Thymine-substituted polyamide, <i>Science</i> 254 (1991)
	OO	Nelson, Time-of-Flight Mass Spectrometry of Nucleic Acids by laser Ablation and Ionization from a Frozen Aqueous Matrix, <i>Rapid Communications in Mass Spectrometry</i> , 4(9):348-351 (1990)
	OP	Nelson <i>et al.</i> , Time-of-flight mass spectrometry of nucleic acids by laser ablation and ionization from a frozen aqueous matrix, <i>Rapid Communications in Mass Spectrometry</i> 4:348-351 (1990)
	OQ	Nelson <i>et al.</i> , "Volatilization of high molecular weight DNA by pulsed laser ablation of frozen aqueous solutions", <i>Science</i> 246:1585-1587 (1989).
	OR	Nikiforov <i>et al.</i> "Genetic Bit Analysis: a solid phase method for typing single nucleotide polymorphisms" <i>Nucleic Acids Research</i> , 22(20):4167-4175 (1994).
	OS	Nikiforov <i>et al.</i> , The use of 96-well polystyrene plates for DNA hybridization-based assays: an evaluation of different approaches to oligonucleotide immobilization, <i>Anal Biochem</i> 227:201-209 (1995).
	OT	Nordhoff E. <i>et al.</i> , Mass spectrometry of nucleic acids, <i>Mass Spectrometry Reviews</i> 15:67-138 (1996)
	OU	Nordhoff <i>et al.</i> , Ion stability of nucleic acids in infrared matrix-assisted laser desorption/ionization mass spectrometry, <i>Nuc Acids Res.</i> 21:3347-3357 (1993).
	OV	Nordhoff <i>et al.</i> , "Matrix-assisted laser desorption/ionization mass spectrometry of nucleic acids with wavelength in the ultraviolet and infrared", <i>Rapid Comm. Mass Spectrom.</i> 6:771-776 (1992)
	OW	O'Donnell <i>et al.</i> , "High-Density, Covalent Attachment of DNA to Silicon Wafers for Analysis by MALDI-TOF Mass Spectrometry", <i>Analytical Chemistry</i> 69(13):2438-2443 (1997).
	OX	O'Donnell <i>et al.</i> , MassArray as an enabling technology for the industrial-scale analysis of DNA, <i>Genetic Engineering News</i> 17 (1997).
	OY	O'Donnell-Maloney <i>et al.</i> , Microfabrication and array technologies for DNA sequencing and diagnostics, <i>Genetic Analysis: Biomolecular Engineering</i> 13:151-157 (1996).
AC54	OZ	O'Donnell-Maloney <i>et al.</i> , The development of microfabricated arrays for DNA sequencing and analysis, <i>Trends in Biotechnology</i> 14:401-407 (1996)

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ASU	PA	Overberg <i>et al.</i> , "Laser desorption mass spectrometry: part II performance and applications of matrix-assisted laser desorption/ionization of large biomolecules", <u>Mass Spect in the Biolog Science: A Tutorial</u> 181-197 (1992).
	PB	Perrouault <i>et al.</i> , Sequence-specific artificial photo-induced endonucleases based on triple helix-forming oligonucleotides, <i>Nature</i> 344:358-360 (1990)
	PC	Pevzner <i>et al.</i> , Improved chips for sequencing by hybridization, <i>J. of Biomolecular Structure &amp; Dynamics</i> 9(2) (1991)
	PD	Pevzner, 1-turple DNA sequencing: computer anlysis, <i>J. of Biomolecular Strucutre &amp; Dynamics</i> 7(1):063-069 (1989)
	PE	Pieles <i>et al.</i> , Matrix-assisted laser desorption ionization time-of-flight mass spectrometry: a powerful tool for the mass and sequence analysis of natural and modified oligonucleotides, <i>Nucleic Acids Res.</i> 21:3191-3196 (1993).
	PF	Pitulle <i>et al.</i> , Initiator oligonucleotides for the combination of chemical and enzymatic RNA synthesis, <i>Gene</i> 112:101-105 (1992)
	PG	Pomerantz <i>et al.</i> , Determination of oligonucleotide composition from mass spectrometrically measured molecular weight, <i>Am. Soc. Mass Spectrom.</i> 4:204-09 (1993).
	PH	Pon, Richard T. et al.; Research Report: Derivatization of Controlled Pore Glass Beads for Solid Phase Oligonucleotide Synthesis; <i>BioTechniques</i> Vol. 6, No. 8 (1988); pp.768-770, 773-775
	PI	Prober <i>et al.</i> , A System for Rapid DNA Sequencing with Fluorescent Chain-Terminating Dideoxynucleotides, <i>Science</i> 238:238-341 (1987)
	PJ	Prome <i>et al.</i> , Use of combined mass spectrometry methods for the characterization of a new variant of human hemoglobin: The double mutant hemoglobin villeparisis beta 77(EF1), <i>J. American Society for Mass Spect</i> 7(2):163-167 (1996).
	PK	Rasmussen <i>et al.</i> , "Covalent immobilization of DNA onto polystyrene microwells: The molecules ar eonly bound at the 5' end", <i>Anal. Biochem.</i> 198:138-142 (1991).
	PL	Rink, "Solid-phase synthesis of protected peptide fragments using a trialkoxy-diphenyl-methlester resin", <i>Tetrahedron Lett.</i> 28:3787-3790 (1987).
	PM	Rolfs <i>et al.</i> , <u>PCR: Clinical Diagnostics and Research</u> , Springer- Verlag (1992)
	PN	Running and Urdea, A procedure for productive coupling of synthetic oligonucleotides to polystyrene microtiter wells for hybridization capture, <i>Biotechniques</i> 8:276-277 (1990)
Helv	PO	Ruppert <i>et al.</i> , A rapid and high throughput method for plasmid isolations, Presented: Automation in Mapping and DNA Sequencing Conference, Aug. 31 - Sept. 2 1994

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AL	PP	Ruppert <i>et al.</i> , Preparation of plasmid DNA as sequencing templates in a microtiter plate format, Paper presented, Cold Spring Harbor Laboratory.
	PQ	Ruppert <i>et al.</i> , A filtration method for plasmid isolation using microtiter filter plates, <u>Anal. Biochem.</u> 230:130-134 (1995).
	PR	Ruth, Oligodeoxynucleotides with reporter Groups Attached to the Base, Oligonucleotides and Analogues: A Practical Approach (Dekstein, F.Ed.) IRL Press, Oxford 255-281 (1991)
	PS	Saiki <i>et al.</i> , Genetic analysis of amplified DNA with immobilized sequence-specific oligonucleotide probes, <u>Proc. Natl. Acad. Sci.</u> 86:6230-6234 (1989)
	PT	Sanger, F. <i>et al.</i> , DNA sequencing with chain-terminating inhibitors, <u>Proc. Natl. Acad. Sci. USA</u> 74:5463-67 (1977)
** X	PU	Sano <i>et al.</i> , Immuno-PCR: very sensitive antigen detection by means of specific antibody-DNA conjugates, <u>Science</u> 258:120-122 (1992) ✓
	PV	Sano <i>et al.</i> , Immuno-PCR, In The Encyclopedia of Molecular Biology and Biotechnology, Robert A. Meyers, ed., VCH Publishers Inc., New York City, N.Y., 4:288-295 (1996) ✓
** X	PW	Sano <i>et al.</i> , Identification of multiple structural domains regulating viroid pathogenicity, <u>Proc. Natl. Acad. Sci. USA</u> 89:10104-10108 (1992) -
	PX	Sano, T., and Cantor, C.R., A streptavidin-protein chimera that allows one-step production of a variety of specific antibody conjugates, <u>Bio/Technology</u> 9:1378-81 (1991)
	PY	Sano T and Cantor CR, Expression vectors for streptavidin-containing chimeric proteins, <u>Biochem and Biophys Res Comm.</u> 176:571-577 (1991)
	PZ	Schneider K <i>et al.</i> , Increased stability of nucleic acids containing 7-deaza-guanosine and 7-deaza-adenosine may enable rapid DNA sequencing by matrix-assisted laser desorption spectroscopy, <u>Nucleic Acids Res.</u> 23(9):1570-75 (1995)
	QA	Schram, Karl H., "Mass Spectrometry of Nucleic Acid Components", <u>Bio Appl of Mass Spect.</u> 34:203-287 (1990).
	QB	Schran, Mass Spectrometry of Nucleic Acid Components, <u>Biomedical Applications of Mass Spectrometry</u> , 34:203-287 (1990)
	QC	Seela, 98.1, 7-Dideaza-2'3'-dideoxyadenosine: Syntheses of Pyrrolo [2,3-b]pyridine 2',3'-Dideoxyribofuranosides and Participation of Purine N(1) during HIV-1 Reverse Transcriptase Inhibition, <u>Helvetica Chimica Acta</u> - 74:1048-1058 (1991)
Ac	QD	Sequenom Signs Agreement With Bruker-Franzen Analytik to Develop Mass Spectrometer for DNA Massarray Analysis, Press Release: Jan. 12, 1998, <a href="http://www.sequenom.com/pressrelease.htm">http://www.sequenom.com/pressrelease.htm</a> .

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AC 51	QE	Sequenom Reports On Use of Its DNA MassArray™Technology to Analyze Genes Associated with Alzheimer's Disease and Arteriosclerosis: Technology Has Applications in Drug Development, Press Release: Sept. 22, 1997, <a href="http://www.sequenom.com/pressrelease.htm">http://www.sequenom.com/pressrelease.htm</a> .
	QF	Sequenom Uses DNA MassArray™to Sequence Section of Human Cancer-Related p53 Gene", Press Release: Mar. 27, 1998, <a href="http://www.sequenom.com/pressrelease.htm">http://www.sequenom.com/pressrelease.htm</a> .
	QG	Sequenom Advances the Industrial Genomics Revolution with the Launch of Its DNA MassArray™Automated Process Line, Press Release: Sept. 28, 1998, <a href="http://www.sequenom.com/pressrelease.htm">http://www.sequenom.com/pressrelease.htm</a> .
	QH	Sequenom Reports DNA MassArray™Technology More Sensitive Than Electrophoretic Methods in Detecting Gene Mutations: Automated DNA Analysis System Can Speed Up Microsatellite Analyses, Press Release: Dec. 15, 1997, <a href="http://www.sequenom.com/pressrelease.htm">http://www.sequenom.com/pressrelease.htm</a> .
	QI	Shaler <i>et al.</i> , Effect of Impurities on the matrix-assisted laser desorption mass spectra of single-stranded oligodeoxynucleotides, <u>Anal. Chem.</u> 68:576-579 (1996).
	QJ	Siegert <i>et al.</i> , Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry for the detection of polymerase chain reaction products containing 7-deazapurine moieties, <u>Anal. Biochem.</u> 243:55-65 (1996).
	QK	Singh <i>et al.</i> , Oligonucleotides, part 5 + : synthesis and Fluorescence studies of NDA oligomers d(AT) <sub>5</sub> containing adenines covalently linked at C-8 with dansyl fluorophore. <u>Nucleic Acids Research</u> 18(11):3339-3345 (1990)
	QL	Sinha <i>et al.</i> , $\beta$ -cyanoethyl N, N-dialkylamino/N-morpholinomonochloro phosphoramidites, new phosphitylating agents facilitating ease of deprotection and work-up of synthesized oligonucleotides, <u>Tetrahedron Lett.</u> 24:5843-5846 (1983).
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AC	QO	Siuzdak, The emergence of mass spectrometry in biochemical research, <u>Proc. Natl. Acad. Sci. USA</u> 91:11290-11297 (1994).

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FORM PTO-1449 (Modified)	ATTY. DOCKET NO. 25491-2403D	SERIAL NO. Not yet assigned
	APPLICANT CANTOR <i>et al.</i>	
	FILING DATE September 14, 1999	GROUP Not yet assigned

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ALSH	QP	Slim <i>et al.</i> , Configurationally defined phosphorothioate-containing oligoribonucleotides in the study of the mechanism of cleavage of hammerhead ribozymes, <i>Nuc Acids Res</i> , 19(6):1183-1188 (1991)
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	QU	Smith <i>et al.</i> , Fluorescence detection in automated DNA sequence analysis, <i>Nature</i> Vol. 321, 674-679 (1986)
	QV	Southern, E.M., Analyzing and comparing nucleic acid sequences by hybridization to arrays of oligonucleotides: evaluation using experimental models, <i>Genomics</i> 13:1008-1017 (1992)
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	RA	Stahl <i>et al.</i> , Solid Phase DNA Sequencing using the Biotin-Avidin System, <i>Nucleic Acids Research</i> , vol. 16, No. 7, pp. 3024-3039 (1988)
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	RC	Stratagene Catalog, p. 39 (1988)
** AC	RD	Stratagene Catalog, Synthetic Oligonucleotides, p. 106 (1992)

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AC56	RE	Strezoska, DNA sequencing by hybridization: 100 bases read by a non-gel-based method, <i>Proc. Natl. Acad. Sci. USA</i> 88:10089-10093 (1991)
	RF	Strezoska, <i>et al.</i> , "DNA sequencing by hybridization: 100 bases read by a non-gel-based method", <i>Proc. Natl. Acad. Sci. USA</i> 88:10089-10093 (1991).
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	RI	Tang <i>et al.</i> , Matrix-assisted laser desorption/ionization mass spectrometry of immobilized duplex DNA probes, <i>Nucleic Acids Research</i> 23:3126-3131 (1995).
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	RM	Tong <i>et al.</i> , Solid-phase method for the purification of DNA sequencing reactions, <i>Anal. Chem.</i> 64:2672-2677, (1992)
	RN	Trainor, "DNA Sequencing, Automation, and the Human Genome", <i>Anal. Chem.</i> 62:418-426 (1990).
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	RP	Verheyden <i>et al.</i> , Synthesis of some pyrimidine 2'-amino-2'-deoxynucleosides, <i>J. Org. Chem.</i> 36(2):250-254 (1971)
	RQ	Vorm <i>et al.</i> , Improved resolution and very high sensitivity in MALDI TOF of matrix surfaces made by fast evaporation, <i>Anal. Chem.</i> 66:3281-3287 (1994).
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	RS	Wang, Solid phase synthesis of protected peptides via photolytic cleavage of the $\alpha$ -methylphenacyl ester anchoring linkage, <i>J. Org. Chem.</i> 41(20):3258-3261 (1976)
*AC	RT	Wetmur, DNA probes: applications of the principles of nucleic acid hybridization, <i>Critical Rev in Biochem and Molec Biol</i> 26(3/4):227-259 (1991)

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